

ABSTRACT

A coupling to connect pipe, including lengths of pipe, valves, hoses, and pipe and hose fittings, includes a body to closely receive the end portion of the pipe to be coupled. A set of first class lever jaw members each having a power arm and a weight arm are mounted to the coupling body to establish a fulcrum for rotation of each lever jaw member about the fulcrum between an engaged position and a disengaged position with respect to the pipe end portion when received in the coupling body. The weight arms may include a gripping surface such as a rubber or plastic material or gripping teeth to grip a smooth end portion of a pipe, or the end portion of the pipe may include a shoulder, such as formed by a groove in the end portion, so the weight arms engage the shoulder to secure the pipe in the coupling. The coupling may have lever arms at each end to similarly attach to end sections of pipe to join them in end to end manner, or the coupling may be otherwise secured to one end of a pipe with the lever jaw members attaching the coupling to another pipe.

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